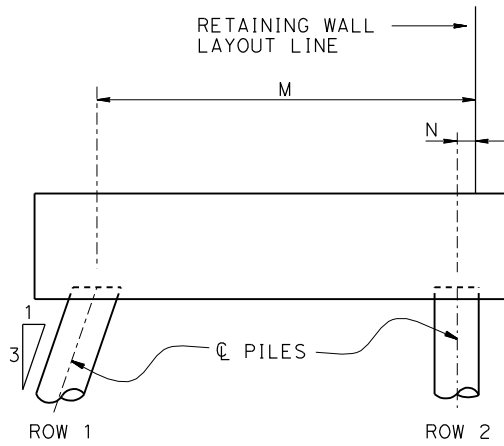


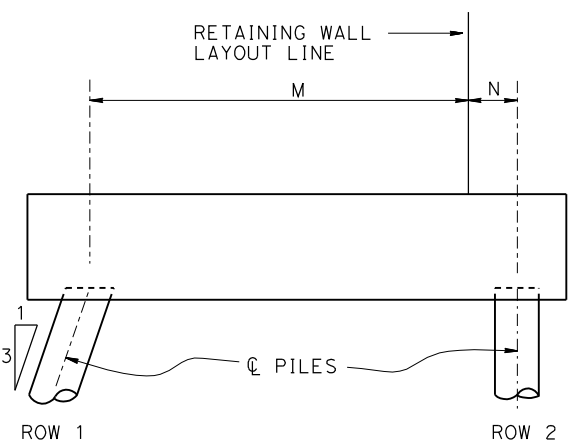
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
X	X	X	X	X	X
REGISTERED CIVIL ENGINEER			X DATE	<div>REGISTERED PROFESSIONAL ENGINEER No. X Exp. X CIVIL STATE OF CALIFORNIA</div>	
PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

TABLE OF WALL DIMENSIONS, REINFORCING STEEL, AND PILE SPACINGS													
DESIGN H	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'
W	6'-6"	7'-3"	7'-9"	8'-0"	9'-0"	9'-3"	10'-3"	11'-3"	12'-3"	13'-0"	14'-3"	15'-3"	17'-0"
C	5'-3"	6'-0"	6'-3"	6'-6"	7'-3"	7'-3"	8'-0"	8'-6"	9'-6"	10'-0"	10'-10"	11'-6"	13'-2"
B	1'-3"	1'-3"	1'-6"	1'-6"	1'-9"	2'-0"	2'-3"	2'-9"	2'-9"	3'-0"	3'-5"	3'-9"	3'-10"
F	2'-6"	2'-6"	2'-9"	2'-9"	2'-9"	2'-9"	3'-0"	3'-0"	3'-3"	3'-6"	3'-9"	4'-0"	4'-3"
STEM THICKNESS AT TOP	1'-0"	1'-0"	1'-3"	1'-3"	1'-7"	1'-11"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-3"	2'-3"
BATTER	0	0	0	0	0	0	0	1/4:12	1/4:12	1/4:12	1/2:12	1/2:12	1/2:12
M	3'-9"	4'-6"	4'-9"	5'-0"	5'-9"	5'-9"	6'-6"	7'-0"	8'-0"	8'-6"	9'-4"	10'-0"	11'-8"
N	0'-3"	0'-3"	0'-0"	0'-0"	0'-3"	0'-6"	0'-9"	1'-3"	1'-3"	1'-6"	1'-11"	2'-3"	2'-4"
ROW 1 SPACING	12'-0"	12'-0"	10'-0"	9'-6"	8'-0"	7'-0"	6'-0"	4'-0"	4'-0"	4'-0"	4'-0"	3'-9"	4'-0"
ROW 2 SPACING	20'-0"	20'-0"	16'-0"	14'-0"	14'-0"	12'-0"	10'-0"	10'-0"	8'-0"	4'-0"	7'-6"	6'-6"	4'-0"
ROW 3 SPACING											6'-0"	5'-0"	4'-0"
⊙ BARS					#5 @ 14	#6 @ 14	#6 @ 13	#6 @ 13	#6 @ 11	#7 @ 12	#7 @ 11	#7 @ 10	#8 @ 11
⊖ BARS	#5 @ 6	#5 @ 5.5	#5 @ 4.5	#6 @ 5	#8 @ 7	#9 @ 7	#9 @ 6.5	#9 @ 6.5	#9 @ 5.5	#10 @ 6	#10 @ 11	#10 @ 10	#11 @ 11
ha	7'-10"	9'-10"	6'-0"	6'-0"	6'-3"	7'-3"	7'-6"	9'-0"	9'-9"	10'-6"	11'-3"	12'-0"	14'-0"
hb					12'-0"	11'-9"	13'-0"	14'-6"	15'-6"	18'-6"	20'-6"	21'-6"	23'-0"
hx	5'-0"	5'-9"	6'-0"	6'-3"	7'-0"	7'-0"	7'-9"	8'-3"	8'-9"	9'-6"	10'-7"	10'-6"	12'-11"
⊙ BARS	#5 @ 12	#5 @ 11	#5 @ 9	#5 @ 10	#5 @ 14	#5 @ 14	#5 @ 13	#5 @ 13	#5 @ 11	#5 @ 12	#5 @ 11	#5 @ 10	#5 @ 11
⊙ BAR LENGTH	3'-6"	4'-6"	4'-6"	6'-0"	7'-0"	7'-0"	7'-9"	10'-9"	11'-9"	12'-6"	13'-9"	14'-9"	16'-6"
⊙ BARS											#4 @ 11	#4 @ 10	#4 @ 11
⊙ bar	#4 @ 12	#4 @ 12	#5 @ 15	#5 @ 15	#5 @ 12	#5 @ 12	#6 @ 12	#6 @ 12	#6 @ 12	#6 @ 12	#6 @ 12	#7 @ 12	#7 @ 12
⊕ bar	#4 @ 18	#4 @ 18	#4 @ 18	#4 @ 18	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12	#5 @ 12	#5 @ 12	#5 @ 12	#5 @ 12
H <sub>b</sub> (k/ft), SVC	2.6	3.3	4.2	5.1	6.2	7.4	9.0	10.4	12.5	14.5	17.0	19.3	21.8
H <sub>b</sub> (k/ft), Str	4.1	5.2	6.6	8.0	9.4	11.1	13.4	16.0	18.8	21.8	25.6	29.1	32.8
H <sub>b</sub> (k/ft), ext	5.0	6.5	8.6	10.5	13.0	15.7	19.0	22.5	26.3	30.5	35.7	41.0	46.5

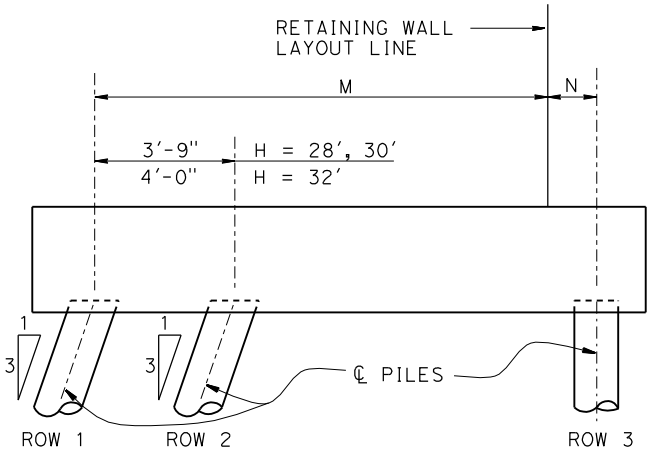
LEGEND:  
⊙ : 2 bar bundle  
H<sub>b</sub> : Factored Horizontal Driving Force  
SVC: Service Limit State  
Str: Strength Limit State  
ext: Extreme Event Limit State



H = 8' THROUGH 14'



H = 16' THROUGH 26'



H = ≥ 28'

PILE PATTERN  
No Scale

STANDARD DRAWING		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. X	X				
FILE NO. <b>xs14-400-2</b>	APPROVAL DATE July 2011			POST MILE X		RETAINING WALL TYPE 7SWP - DETAILS NO. 2			
DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11))		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: X PROJECT NUMBER & PHASE: X	CONTRACT NO.: X	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET X	OF X